

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,206	12/10/2003	Henry Liu		4602
7590 05/12/2005			EXAMINER	
Dr. Henry Liu 3212 Woodbine Drive			JOYCE, HAROLD	
Columbia, MO 65203-0976			ART UNIT	PAPER NUMBER
			3749	

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/731,206	LIU, HENRY				
Office Action Summary	Examiner	Art Unit				
	Harold Joyce	3749				
- The MAILING DATE of this communication a	ppears on the cover sheet wi	th the correspondence address -				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of third od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28						
, , , , , , , , , , ,	·					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) 1-15 is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 17-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers  9) The specification is objected to by the Examm 10) The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the correction of the correction is objected to by the specification is objected to be specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification is objected to be specification in the specification in the specification	ewn from consideration.  d/or election requirement.  iner.  accepted or b) □ objected to  the drawing(s) be held in abeyal  rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	opplication No  received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB, Paper No(s)/Mail Date	Paper No. (08) 5) Notice of	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) e Continuation Sheet.				

Continuation of Attachment(s) 6). Other: Copy of claim 21 including status identifier.

Application/Control Number: 10/731,206

Art Unit: 3749

#### **DETAILED ACTION**

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

The added claim has been numbered claim 21. Note also, -- Claim 21 (new) -- has been inserted before the claim in accordance to the revised amendment practice, 37 CFR 1.121. See

http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/fmoreinfoamdtprac.htm.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Preston in view of Smith et al. Preston discloses the claimed invention except for carbon monoxide alarm. Smith et al. teaches that it is known to provide a system for controlling make-up air apparatus in conjunction with the operation of an appliance with a carbon monoxide detector as set forth at column 5, lines 46-54. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the combustible fuel burning system of Preston with the carbon monoxide alarm, as

Application/Control Number: 10/731,206 Page 3

Art Unit: 3749

taught by Smith et al. in order to prevent carbon monoxide build-up within the building space.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 21 is rejected under 35 U.S.C. 102(b) as being clearly by Preston.

## Claim Rejections - 35 USC § 112

6. Claims 16-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Steps in a method claim must be in verb phrases; such as, "providing a roof...", "providing a carbon monoxide alarm...". Regarding claim 16, the phrases "such as" and "preferably" render the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

#### Election/Restrictions

7. Claims 1-15 are withdrawn from further consideration pursuant to 37 CFR
1.142(b) as being drawn to a nonelected species, there being no allowable generic or
linking claim. Election was made **without** traverse in the reply filed on February 28,
2005.

Application/Control Number: 10/731,206 Page 4

Art Unit: 3749

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

9. In response to this Office action, applicant should include arguments under the heading "Remarks" pointing out disagreements with the examiner's contentions.

Applicant must also discuss the references applied against the claims, explaining how the claims avoid the references or distinguish from them.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Joyce whose telephone number is (571) 272-4876. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (571) 272-4877. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harold Joyce Primary Examiner Art Unit 3749